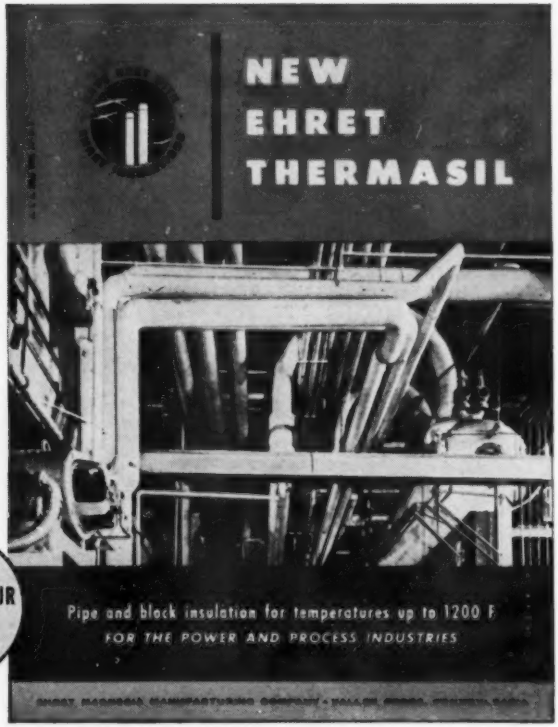
ASBESTOS

Vermont (U.S.A.) Crude

Courtesy The Ruberoid Co.

AUGUST 1957



SEND FOR YOUR FREE COPY

GET THE LATEST FACTS ON HIGH-TEMPERATURE INSULATION

For closer control of process temperatures • Minimum fuel loss • Long, trouble-free service

Ehret's new bulletin brings you full data on the ideal heat insulation for temperatures up to 1200°F. Shows and describes new THERMASIL pipe and block insulation. Discusses physical properties: light weight, high strength, durability, non-corrosiveness, imperviousness to water and flame. Pictures typical heat-saving applications and contains recommended insulation thicknesses and methods of installation. Write for your free copy to Department AM.

EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE, PENNSYLVANIA

"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE
BY SECRETARIAL SERVICE
807 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA 7, PENNSYLVANIA

Trust of C. J. STOVER, *Proprietor*
E. E. COX, *Editor*

Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 39 AUGUST 1957 Number 2

CONTENTS

	Page
LAKE ASBESTOS OF QUEBEC , LTD. NEW $32.5 MILLION ASBESTOS MINE AND MILL	2
STURTEVANT AIRTEN AIR SEPARATOR AIDS IN ASSURING HIGH-QUALITY MARINITE* FOR JOHNS-MANVILLE	14
CAPOSITE THERMAL INSULATION FOR THE OIL INDUSTRY	16
ARMSTRONG CORK CO. DEVELOPS NEW GASKETING MATERIALS	18
CANADA'S ASBESTOS PRODUCTS 1955	22
MARKET CONDITIONS	24
AUTOMOBILE SALES	28
BUILDING	30
THE BOOK CORNER	34
Production Statistics	36
Imports and Exports	38
NEWS OF THE INDUSTRY	46
Current Range of Price	56
Asbestos Stock Quotations	58
Patents	62

ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - $2.00 Per Year
Canada - $3.00 Per Year Foreign Countries - $3.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each
(Payable in U. S. Funds)

Copyright 1957, Maud M. Stover, Trustee, Trust of C. J. Stover

LAKE ASBESTOS OF QUEBEC, LTD. NEW $32.5 MILLION ASBESTOS MINE AND MILL

At Black Lake, Quebec, Canada, Lake Asbestos of Quebec, Ltd., a wholly owned subsidiary of American Smelting & Refining Company, New York, is developing an asbestos mine and building a mill that will produce about 100,000 tons of asbestos fibre a year, approximately a 10% addition to Canada's production and a 6% addition to the free world's supply of this raw material.

The project is unique in that the ore lies under a lake which is the key feature in the drainage system of a populated area of very heavy rainfall. Readying the ore deposit for open pit mining involves removal of about 37 million cubic yards of overburden, of which about 30 million cubic yards will be removed by dredging and pumping and 7 million by mechanical means (power shovels and trucks), and draining the lake.

It is estimated that by the time asbestos is being produced in 1958, $32.5 million will have been invested, including $9.2 million for the mill. At that time, too, engineers will have, in the experience of this pioneering venture, a new textbook on submarine mining which will be applicable to development of other ore bodies under lakes and the like that may be discovered or that are known but up to now, have been judged too difficult to develop.

The development is also an outstanding example of international co-operation whereby Canadian natural resources are being brought into use for the benefit of Canada through the investment of American capital and the engineering skills of both nations. Under the agreement by which Asarco (American Smelting and Refining Co.) undertook the development with the Canadian company holding mining rights to the Black Lake deposit, Asarco is to supply the necessary capital for the development of the property and operate it for the life of the ore bodies on a profit-sharing basis.

The Province of Quebec, where Black Lake is located,

The "inextinguishable flame" the ancient Greeks called asbestos.
Now modern plants use asbestos products such as the K&M asbestos tapes illustrated here.

K&M ASBESTOS TEXTILES

insulate . . . protect from fire . . . are practically indestructible!

As ancient as writing . . . as modern as atomic energy, asbestos has unique qualities that have made it of constant use to man. And even today there is no substitute for the combination of characteristics it offers to industry.

Woven into cloth, tape or thread it makes superior electrical insulation . . . protects from heat and chemicals and retains its strength through a wide range of temperature and humidity conditions. And asbestos is immune to rot and corrosion, as well.

K&M Asbestos Textiles are made only from carefully selected grades of asbestos fibers to assure maximum uniformity and reliability. They're backed by more than half a century of imaginative research and development experience. Investigate K&M Asbestos Textiles for any insulating problem you may have. Write or call us any time.

KEASBEY & MATTISON COMPANY • AMBLER • PENNA.

produces about 6% of the world's asbestos fibre. Just north of the lake, which is about 2 miles long by a half-mile wide, is the town of the same name, Black Lake (population, 5,000), and 4 ½ miles further north is the town of Thetford Mines (population, 20,000). In this Thetford-Mines, Black Lake mine district, asbestos is the principal industry; there are seven mines and mills, and huge tailings piles give evidence of long years of working these deposits. (The other principal mine district of the two which account for the major portion of Canadian production is some 45 miles to the south at Asbestos.)

Since asbestos deposits have been mined on either side of Black Lake for many years, it was a reasonable assumption to expect that the ore extended under the lake. However, until a few years ago, the tremendous engineering problems and costs involved in developing such deposits precluded exploration under the 500-acre lake, but the success of draining and dredging operations to recover iron ore from deposits in the Steep Rock area in Southern Ontario near the Minnesota border, made the Black Lake potential seem more favorable to Canadian engineers. Consequently the Black Lake ore body was staked January 1, 1948 and, with mining rights granted by the Crown, the first test hole was drilled in August of that year, and exploration carried on during the winter months by drilling with drill rigs set on the ice. At this time, the United Asbestos Corporation Ltd. was formed and funds obtained through public subscription to carry on this work. A 6 ft. x 16 ft. shaft was started on the east side of the lake for underground exploration in 1950 and completed in the spring of 1951 at a depth of 570 ft. from the shaft collar. This shaft, 40 ft. of which now stands above dry ground, was originally located in the lake and was gradually connected to the shore by filling in with material excavated in this phase of the mining exploration. Underground development followed as tunnels and drifts were drilled to explore this deposit, known as the "A" ore body. Another ore body, known as "C" ore body, was located beneath a granite island on the west side of the lake. (A third ore body is indicated in the center of the lake ,but this needs further development, and

Cable Address
Asbestic, Thetford Mines

Phone: FEderal
5-9193

JOHNSON'S COMPANY LTD.
ASBESTOS MINES
MINE AT
THETFORD MINES, QUE.

JOHNSON'S ASBESTOS COMPANY
MINE AT BLACK LAKE, QUE.

HEAD OFFICES
THETFORD MINES, QUE.
CANADA

Producers of RAW ASBESTOS Since 1875

AGENTS

UNITED STATES ....GRANT WILSON, INC., 141 West Jackson Boulevard, CHICAGO 4, ILL.

HARDWARE PRODUCTS CO., 3 Park Place, NEW YORK 7, N. Y.

GREAT BRITAIN ...A. A. BRAZIER & CO. (Asbestos) Ltd., "Avenue Lodge," Bounds Green Road, LONDON, N 22

JAPAN .....Iwai & Company, Ltd. C. P. O. Box 226 TOKYO

BELGIUM .....JOS IDE & FILS, 23, rue Mareyde, BRUSSELS (Woluwe St. Pierre)

GERMANY .....ERNST WERNER, Import von Rohasbest, Katharinenstrasse 30, "Edmundhaus," HAMBURG 11,

only the two ore bodies figure in present plans.) The fibre in these deposits was found to be of above-average quality.

United Asbestos most of whose shares are owned by Canadians, had invested $1-2 million in exploration operations, but did not have the tremendous capital needed to bring the property into full production; in seeking financial aid, it brought the development to the attention of Asarco. To Asarco, a non-ferrous metals producer with annual sales exceeding $500 million, the project was both a challenging opportunity to put its large capital and engineering resources to work in a new field, and a step toward diversification of its industrial interests. United Asbestos granted Asarco an option to provide the necessary funds for development of the property and operate it on a profit-sharing basis: Asarco was 1. Develop the deposit; 2. Equip the property with a mill to treat 4000 tons of ore per day; 3. Receive 75% of the proceeds until the capital investment was recovered; then the proceeds were to be split according to a formula based on the grade of ore being mined and milled; and 4. Have complete freedom of operation during the life of the ore body.

Following checks on the exploration already done, further drilling, and actual milling of ore to determine yield, value, type of equipment needed for the job, etc., Asarco exercised the option in May, 1954. By this time some 120,000 ft. of Diamond drilling, part surface and part underground, had been carried out, and 30,000 tons of ore had been mined. The existence of deposits sufficient for 40 years operations had been established.

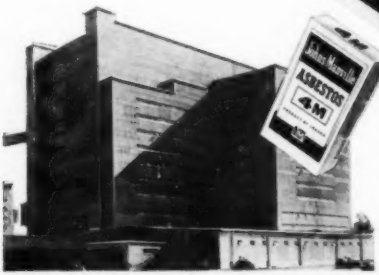
Construction Aggregates Corporation of Chicago, the company carrying on the Steep Rock dredging, was granted the contract for dredging. CAC's contract called for construction of a suction dredge to remove the silt from the lake bottom and drain the lake prior to the start of open pit mining of "A" and "C" ore bodies. Open pit mining was selected over underground mining on the basis of the geology of the area and other factors. But in either case, the mud and silt would have had to be removed to guard against contamination of the asbestos by organic

New packing process cuts costs 9 ways...

J-M Pressure Packed Asbestos Fibre

(uniform 100 lb blocks)

1. Prevents fibre leakage—eliminates dust
2. Provides lower freight rate
3. Saves warehouse space
4. Simplifies handling and storage
5. Keeps fibre pure
6. Improves grade identification
7. Reduces moisture absorption
8. Eliminates bag rehandling—bags are disposable
9. Self-cleaning—no fibre left in bag (Clean packages—clean plants)



Produced at the world's largest asbestos mill

Find out how you can take advantage of these and other benefits of J-M *Pressure Packed* Asbestos Fibre. Write to address below for new illustrated 8-page brochure.

Asbestos Fibre Division

Canadian Johns-Manville Co., Ltd.
Asbestos, P. Q., Canada Telephone: 100

matter that would char at the high curing temperature employed in asbestos processing, and degrade the product.

Although Black Lake is inevitably compared with Steep Rock, which is a larger job, it stands alone not only in that this is the first time suction dredging has been employed for asbestos, but in the difficulty of hydraulics problems envolved.

An integral part of the hydraulic system is the disposal of waste, including that from the dredging operations. For not only must there be areas to deposit the silt as it is pumped out, but provision had to be made for return of water from this mud and silt to the lake to maintain a water level satisfactory for dredging at any stage. If needed, makeup water can be diverted from the river diversion channel through a controlled gate and canal system. Conversely, when the level of the lake needs to be lowered, water is wasted to the river channel instead of being returned to the lake.

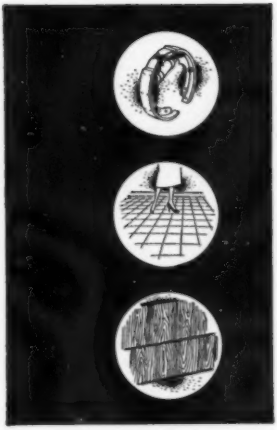
In addition to changing the drainage of the area, Highway No. 1 running along the east side of the lake had to be moved to make way for the project. This involved replacing the old highway with 1.9 miles of Class A highway having a 46 in. subgrade and 22 ft. wide paving.

Although dredging will continue until early 1959, the lake should be low enough in mid-1958 to allow initial mining operations and tune-up operations in the mill. Open pit mining should be possible for about 20 years; after that underground methods will probably be necessary.

Ore reserves are presently estimated at 47 million tons, and the mill will have a capacity of 5,000 tons of ore per day. The stripping ratio will vary, but should average about three of waste to one of ore.

Since prevention from contamination is very important in asbestos mining and milling, the ore body must be carefully cleaned before initial operations are started.

A contract for construction of the $9.2 million mill has been let and the work is well along. Although not boasting unique features such as the mining phase, the mill will have the most modern production equipment and quality control facilities to do superior processing and yield a high quality product. All test work has shown



you can
count on
Carey®
ASBESTOS

UNIFORM QUALITY!
DEPENDABLE SUPPLY!

When *you* think of asbestos as a basic component for your product, think of Carey Asbestos. The industry's most exacting quality control program is at your service. Standardized grading and rigid control of fibre processing guarantee you a source of fibre that remains uniform year after year. And Carey's vast mining operation in East Broughton, Quebec offers you a dependable supply of the finest variety of Canadian Chrysotile asbestos, in either fibre or shorts. You can get complete information on Carey Asbestos by writing

ASBESTOS FIBRE DIVISION

THE PHILIP Carey MFG. COMPANY

Lockland, Cincinnati 15, Ohio

In Canada:
THE PHILIP CAREY CO., LTD.
95 STINSON BLVD.
VILLE ST. LAURENT
MONTREAL 9, P. Q.

that the Black Lake ore bodies are of such quality that the mill will produce all grades of asbestos from the longest to the shortest fibres.

The mill is 150 ft. wide by 260 ft. long (including the drier section) and 130 ft. high. A building equivalent to a 14-story unit, it will be entirely enclosed.

Other buildings completing the mine and mill, in addition to the primary crusher, wet rock storage and dry rock storage include an electric substation, shops and garages, company offices and change house.

In bringing in the Black Lake deposit, Lake Asbestos will be adding approximately 6% to the free world's supply of asbestos. Canada, as has been mentioned, is the major supplier South Africa and Russia are other important suppliers. In 1953, according to the U. S. Bureau of Mines, world asbestos production, exclusive of Russia, totaled 1,375,000 tons, of which 826,000 tons originated in Canada, and in 1955 Canadian production was estimated to have approached one million tons. Better than 60% of Canadian production goes to the United States; the balance is exported to such free-world countries as Mexico, South American nations, Australia, Japan and Western Europe.

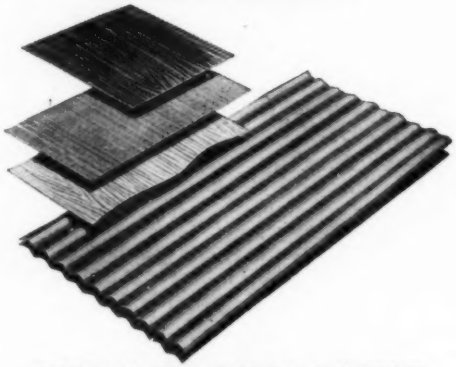
Lake Asbestos will probably maintain a distribution pattern similar to that of other Canadian producers, probably selling 50% to the U. S., and exporting the rest, principally to Europe, Latin America, Japan and Australia. Especially good customers are countries which are short of steel, but have limestone for concrete, to which as much as 20% asbestos is added.

In entering what is for it a new field, Asarco will be continuing its main company function as a supplier of quality raw materials to industrial consumers and will not itself make asbestos end-products. This will give it a decided sales advantage over many other basic asbestos producers who are large factors in the asbestos products industry as well. In contrast to such captive production, all the Lake Asbestos production will be available to industrial users.

Moreover, as with its non-ferrous metals production, the company recognizes the desirability of knowing all

Gold Bond

ASBESTOS-CEMENT PRODUCTS



CHROMA-TEX SIDING SHINGLES
with "Surfaseal" finish

•

ROOFING SHINGLES

•

PLIABOARD
PERMABOARD

•

CORRUGATED ROOFING
AND SIDING

•

National Gypsum Company • Buffalo 2, N. Y.

about its raw materials and is pursuing the same course with asbestos it has with its other products in terms of research and technical service. At its Central Research Laboratories at South Plainfield, N. J., the company has research men already working with industry to help future customers solve asbestos applications problems. Others are concerned with fundamental research projects.

In addition to the incentive of a project that held a high profit potential for a company with enough confidence and capital to tackle it, Black Lake offers Asarco a product that is less cyclical than non-ferrous metals, and which should lend greater stability to its sales pattern. The consumption curve of asbestos, tied as it is to products related to the expanding needs of an ever increasing world population, has been going steadily upward and is expected to continue so. And the price has been steady.

Black Lake asbestos is of especially high quality and the product will have a greater proportion of the longer, more valuable fibres than the average of other producers. In terms of return to the company, it is indicated that the average price of fibre produced will be about $130 per ton, yielding a gross annual revenue of $13 million based on 100,000 ton production.

President of Lake Asbestos of Quebec is Robert D. Bradford, who also is a vice president and director of Asarco. General manager of the Canadian company is Michael J. Messel.

Complete Plants for making

ASBESTOS CEMENT PIPES

Socketed and Non-socketed
Precision Steel Mandrels
Plants for Making Sheets, Small Cement Plants

Plants designed, equipped and financed.

ASBESTOS CEMENT ENGINEERING CO.
Hauptstrasse 26
VADUZ-LIECHTENSTEIN (Switzerland)
P.O. Box 444.72

CANADIAN ASBESTOS

THE NICOLET ASBESTOS MINE
Norbestos (via Warwick)
Que.

Address Inquiries to:

NICOLET INDUSTRIES, INC.

ASBESTOS FIBRE DIVISION

70 Pine Street

New York 5, New York

STURTEVANT AIRTEN AIR SEPARATOR AIDS IN ASSURING HIGH-QUALITY MARINITE* FOR JOHNS - MANVILLE

When the Morro Castle sea disaster occurred in 1934, laws were enacted to ensure proper fire precaution on all American vessels. One of the statutes required the construction of fire-screen bulkheads at specified intervals along the length of all passenger vessels, and the enclosure of all staterooms, passage-ways, offices, and other areas, with fireproof material.

This law helped spark the development of Marinite*, Johns-Manville's high-strength to low-density ratio insulating sheet material which is manufactured in North Billerica, Massachusets, of asbestos fiber, diatomaceous silica and an inorganic binder. It is fireproof, sturdy, and has high insulating properties as well, and its production calls for careful quality control.

The Crude asbestos fiber, however, contains from three to six percent rock — or high density material — which must be removed to assure the overall consistency of the finished product, and to prevent surface damage to finished Marinite.

Shortly after World War II, Johns-Manville began seeking modern methods of removing this high-density material. To cope with this inherent problem, management looked to centrifugal air separation.

A study of available units determined the adequacy and simplicity of an Airten Centrifugal Air Separator engineered by Sturtevant Mill Company of Boston, Massachusetts. The Sturtevant unit is simply adjusted to select fines of varying sizes, and all moving parts are easily accessible for repairs when and if needed.

Since the installation of the Sturtevant unit at the North Billerica plant, it has been operating on a 20-hours-a-day schedule, and only one minor repair has been needed — the replacement of a bearing.

Approximately 2000 pounds per hour of fiber is processed by the Separator. Occasionally, the feed is stepped up to 3,000 pounds. The unit rejects the three to six per-

HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

1000 Maple Avenue

Lansdale, Penna.

cent of high-density material that is inherent in the crude fiber, and collects open fibers for further processing. "Pencils" — unopened fibers — are also rejected by the unit.

The asbestos is introduced into the process by a feed hopper, which separates the clustered asbestos and assures an even flow of the mineral into further processing. The asbestos is then carried via belt conveyor to fiberizers which further break the fibres and grind them to desired lengths. Suction then carries the fiberized asbestos into the Sturtevant Air Separator where the important removal of high-density particles takes place. After rejection of these "rocks", the asbestos fiber is conveyed directly to the mixers.

The importance of smoothness and consistency of the finished end product makes the removal of particles an imperative part of the production process. The use of the sheet material in finished industrial applications and marine uses demands this quality, and the Sturtevant Air Separator assures compliance with these demands.
*Reg.

CAPOSITE THERMAL INSULATION FOR THE OIL INDUSTRY

"Thermal Insulation For The Oil Industry" is the title of a new illustrated leaflet issued by The Cape Asbestos Company Limited, manufacturers of 'Caposite' amosite asbestos thermal insulation materials and 'Rocksil' rock wool insulation.

Details are given of 'Caposite' blocks and pipe sections, 'Caposil' High Temperature blocks, 'Caposite' and 'Caposil' Insulating and Finishing Cements, and 'Rocksil' for both acoustic and thermal insulation. Mention is also made of other products of the company used on oil refineries such as Asbestos Textiles, Jointings, Packings and Millboard, and 'Asbestolux' asbestos insulation board for the fire protection of structures, girders and vessels.

Copies may be obtained by writing Cape Asbestos Company Limited 114 & 116 Park Street, London W. 1, England.

THETFORD MINES

QUEBEC CANADA

REPRESENTATIVES

GREAT BRITAIN:	W. A. JANITCH 37/38 Coal Exchange Building Lower Thames St., London, E. C. 3
GERMANY:	BECKER & HAAG Ferdinandstrasse 58 (Hapag-Haus) Hamburg 1, Germany
TOKYO, JAPAN:	ASANO BUSSAN COMPANY
	U. S. A.:
BALTIMORE, MD.:	WALLACE & GALE CO. 115 South Gay St.
CLEVELAND:	CARL T. SCHUSTER CO. 3540 Norton Road Cleveland 11, Ohio
CHICAGO, ILL.:	THE STARKIE COMPANY 5461 W. Division St.
DETROIT:	GERALD J. FAHEY 6432 Cass Avenue Detroit 2, Michigan
NEW YORK, N. Y.:	WHITTAKER, CLARK & DANIELS, INC. 260 West Broadway
SAN FRANCISCO, CAL.:	L. H. BUTCHER CO. 15th and Vermont Sts.
	CANADA:
MONTREAL, QUE.:	ATLAS ASBESTOS CO., LTD. 5600 Hochelaga St.
TORONTO 1, ONT.:	CANADIAN ASBESTOS ONTARIO, LTD. 27 Front St., East

ARMSTRONG CORK CO. DEVELOPS NEW GASKETING MATERIALS

Five new high density fiber gasketing materials that make it possible to obtain seals at lower flange pressures have been developed by the Industrial Division of the Armstrong Cork Company.

The new materials enable the Company to offer a more complete line in the Accopac series, a recently developed group of gasketing materials that have more flexibility, dimensional stability and uniformity than conventional fiber gaskets. In the unique manufacturing process, the fibers are uniformly coated with a synthetic rubber saturant while still dispersed in water This is done by a patented modification of the "beater-Saturation" process.

The new materials include:

AS-460 Asbestos Accopac—82 pound density, seals at pressures of 2,000 psi, performs satisfactorily in flanges at 500°F., excellent torque retention, GRS synthetic rubber binder.

AD-870 Asbestos Accopac—82 pound density seals at pressures of 2,000 psi, performs satisfactorily in flanges at 500° F., excellent torque retention, Neoprene rubber binder.

AN-890 Asbestos Accopac—82 pound density, seals at flange pressures between 1,500-2,000 psi, performs satisfactorily at 500° F., excellent torque retention, Nitrile rubber binder.

CN-808 Accopac—60 pound density, seals at 800 psi, combination of cellulose fiber, cork and nitrile rubber makes it possible to maintain unusually close tolerances on gauge, especially applicable in such industrial applications as carburetors and gas container instruments.

N-840 Accopac—78 pound density, seals as low as 1,500 psi, an impervious structure designed primarily for heavy duty service where compressibility must be at a minimum and bolt torque must be retained such as in automatic transmissions.

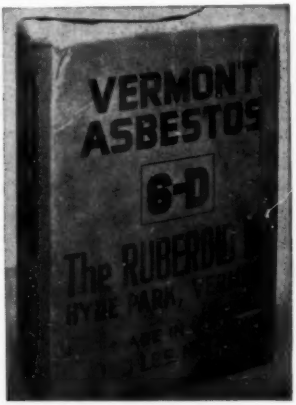
CUT COSTS

WITH RUBEROID
PRESSURE-PACKED ASBESTOS

Now Available in 100-lb. packets
that lower your costs in 10 ways!

Order asbestos fibres economically through Ruberoid space-saving Pressure packages. These compact 100-lb. packets offer you all the quality of Ruberoid asbestos in a pressure-compacted package with these economies:

1. **Lower freight costs**
2. **Space saving in storage**
3. **Simplified grade identification**
4. **Elimination of dust**
5. **Elimination of fibre leaks**
6. **Faster easier handling**
7. **Easy storage**
8. **Minimum moisture absorption**
9. **No more bag rehandling (Throw-away package)**
10. **No more fibre loss in package**



Order your Asbestos Fibre pressure-packet today!

RUBEROID

Asbestos Fibre Dept., 500 Fifth Ave., New York 36, N.Y.

PLANTATION STONE INSULATING PANELS

After years of engineering research, consumer appeal and product pre-test studies, Bird & Son, Inc. of East Walpole, Mass., announces full production of its newest line in asbestonized insulating panels—Bird Plantation Stone.

New Bird Plantation Stone has a fresh, crisp design with a unique over-all color effect, covering all of the embossed areas with complimentary colored granules modifying the scoring lines. This manufacturing process highlights the three-dimensional effect of the design and utilizes Bird's special developed technique in duplicating the actual appearance of real hand-hewn stone.

The fresh new approach to Bird Plantation Stone's exciting design is in keeping with Bird & Son's national roofing and siding promotion on color to help make the consumer aware that it is easy for every homeowner to 'Exterior Decorate' his home—with the accent on roof and siding colors.

Which colors 'go together,' is a question that has baffled many builders and applicators as well as homeowners. That according to Bird engineers is where Bird Plantation Stone is a unique insulating panel design.

A total of 4 exciting yet 'pleasing to the eye' colors are available in the new Bird Plantation Stone line: Blue Blende, Green Blende, Tan Blende, White.

Taft-Jenkins Co., Inc., of Holyoke, Mass., has perfected a new fastening system, for attaching insulation, called TAFT'S IDEAL PIN-TITE STRAPPING. It is designed so that it is adaptable to wrap around insulations and for rigid and semi-rigid insulations. No welding or adhesives are required.

Full information on estimating quantities, packaging, prices, and technical information can be obtained from Taft-Jenkins Co., Inc., P. O. Box 413, Holyoke, Mass.

MARINITE FOR OVENS and DRIERS

Two new illustrated leaflets have been issued by Marinite Limited, manufacturers of Marinite asbestos sheet insulating material, to illustrate industrial applications of this material originally designed as the name implies, for marine use.

A six page leaflet with a bright black and red cover shows how Marinite can be used for building and insulating ovens, kilns, driers, lehrs, ductings and in foundries as core plates and launder linings. Details are given of its properties and how to use it, there are drawings of typical construction details — a sliding door, a band oven, an observation port; and a table shows the results of a Thermal Conductivity Test undertaken by the Industrial Gas Development Committee.

A smaller leaflet "Build And Insulate In One Operation" consists of a selection of photographs of recent installations constructed of Marinite. These include a Processing Oven at Ferranti Limited, Manchester, a Paint Drying oven at Vickers-Armstrongs (Aircraft) Limited, Swindon, a Pre-heating Oven for English Electric Company Limited and a Plastic Oven for the Cascelloids Division of British Xylonite Limited.

Copies may be obtained by writing Marinite Limited, 114 & 116 Park Street, London, W. 1, England.

Exterior house colors Americans are expected to buy in the months to come have just been introduced by The Ruberoid Co. in a new line of Vitramic Siding.

Called Trend Colors, these new high-fashioned shades were selected by one of the nation's leading color experts. The Trend line is limited to seven light, clean colors which cover a full range of shades—Turquoise, Myrtle Green, Platinum Gray, Buckskin Brown, Glen Green, Harvest Yellow and Terra Cotta. Swan White is also available.

CANADA'S ASBESTOS PRODUCTS 1955

The Asbestos Products Industry, 1955, a seven page folder issued recently by the Dominion Bureau of Statistics at Ottawa, gives various statistics concerning Canada's asbestos manufacturing industry. Briefly a few figures are of special interest; factory shipments by the manufacturers of asbestos goods in Canada in 1955 were valued at $30,127,022 as compared with $23,768,768 in 1954.

Divided as to products these figures will be of more than usual interest:

	1955		1954	
	Quantity	Selling At Works Value	Quantity	Selling At Works Value
Asbestos Brake Linings				
Molded ..... Ft.	.....	$ 3,087,608	.....	$ 2,571,909
Other ..... Ft.	.....	557,290	.....	436,180
Asbestos Pipe and Boiler Coverings	.....	1,631,086	.....	1,465,264
Asbestos Clutch Facings ..... No.	1,319,478	856,275	821,891	525,039
Asbestos Gaskets	.....	186,785	.....	153,017
Asbestos Packings (All Kinds)	.....	810,661	.....	636,148
All Other Proucts	.....	22,997,317	.....	17,981,211
		$30,127,022		$23,768,768

	1955	1954
Number of Plants	16	16
Average Number of Employees	2,075	1,885
Salaries and Wages	$7,222,575	$6,455,586
Cost of Fuel & Elec. at Plant	729,134	620,999
Cost of Materials at Plant	12,889,656	10,397,068
Gross Selling Value of Products	30,127,022	23,768,768

Of the 16 factories reporting in 1955, 5 were located in Quebec; 8 in Ontario; 1 in Nova Scotia and 2 in British Columbia.

Other tables, concerning imports, exports, materials used in the Asbestos Products Industry, etc., are included in the pamphlet which may be obtained from the Dominion Bureau of Statistics, Industry and Merchandise Division at Ottawa for 25c. Ask for "The Asbestos Products Industry — 1955."

Your Best Buy...

ENGINEERED INSULATION by MUNDET

The difference between two kinds of insulation may be many years of trouble-free service . . . an advantage that may far outweigh the initial cost factor.

Mundet engineered insulations are precision-manufactured to serve you for your individual requirements... longest ... best!

You can depend on Mundet for these benefits:

1. A full line of thermal insulations for all temperature ranges...
2. Prompt attention to your needs and speedy deliveries from nearby Mundet warehouses

MUNDET INSULATION PRODUCTS

include "custom-molded" 85% Magnesia heat insulation and "Tri-Calite" insulation for higher temperatures. Also new expanded Polystyrene insulation: "Styrocel"® "custom-molded" pipe covering and "Styrolite"® board, and Corkboard and Cork Pipe Covering for low temperatures.

MUNDET CORK CORPORATION
Insulation Division
7101 Tonnelle Ave., North Bergen, N. J.
OFFICES IN PRINCIPAL CITIES

COMPLETE INSULATION SERVICE...

MUNDET

MARKET CONDITIONS

GENERAL BUSINESS.

General opinions on the course of business for the remainder of 1957 are becoming more and more divergent. In the steel industry, for example, some company heads predict rising output while others *hope* for only a slight easing off for the balance of the year. The strike in the cement industry has definitely slowed construction of highways and buildings. However, now that settlement has been reached, construction projects should move ahead at a good rate so long as the weather conditions permit.

Markets for consumer durable goods are still highly competitive. Retail trade in most areas is somewhat better than that of 1956.

In general it appears that 1957 will be the best year ever in terms of gross national product, despite the sloughing off in some industries from levels achieved in 1956.

ASBESTOS — RAW MATERIAL.

At the half year point shipments of asbestos fibre are very close in total to the same period a year ago.

A reduction in demand for fibre for Asbestos Cement building products has been offset by improvements in shipments to other industries and by some pick-up in export demand.

Practically all grades of fibre are in ample supply and deliveries are being made in accordance with requested schedules, and spot shipments on relatively short notice.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. The present market is very slow. Equipment accounts have curtailed buying on the premise that inventories must be reduced. Government buying, while it continues, is not of any great magnitude. There is nothing in the foreseeable future which will indicate that this market will substantially improve this year.

DRYCOR FELT CO.

STAFFORDVILLE
CONNECTICUT
U. S. A.

Pioneers
and
World's Largest
Manufacturer
of
NEEDLED FELTS
for
ASBESTOS CEMENT PRODUCTS

•

ESTABLISHED STANDARD
for
ECONOMY
DRAINAGE
LONGER LIFE

•

Synthetic Fibre Content Available to Meet Your Individual Requirement

Asbestos Paper. Orders for this material have been rather slow and it is anticipated that the volume for this year will be equal to or slightly exceed 1956. Volume of sales for *Millboard* has fallen off seriously this month and keen competition exists for the business which is available. Sales for *Saturated Paper* have fallen off slightly this month. Government inquiries are requesting this material again so an increase in sales is expected for the next quarter.

Insulation. High Pressure. The present market shows little improvement over previous reports. Sales are down about 10% in comparison with the same period last year. The competitive situation is very complex, particularly as it relates to applied work.

Insulation. Low Pressure. Although there has been no change in this market, it is anticipated that volume will be equal to that of last year.

Asbestos Cement Products. Order placements for *Roofing & Siding* for July were much higher than for June and are comparable to those of July last year.

Production of *Corrugated and Flat* exceeds demand. Construction has been held up but is now opening up and it is anticipated that the demand will equal production for at least the next three months.

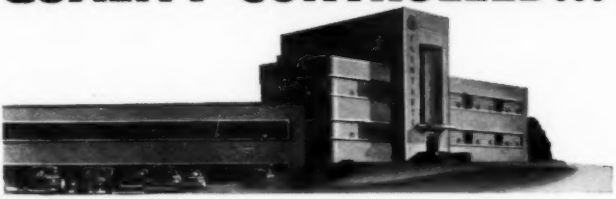
Sales of all types of *Asbestos-Cement Pipe* continue under the 1956 level. Although less than last year sales of all types are seasonally high.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

WANTED

Portable Asbestos .Wet Spray Machine or franchise for sprayed ceiling and equipment work in New Jersey. Send resume to Box No. 81-NJ, Asbestos, 807 Western Saving Fund Bldg., Phila. 7, Pa.

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada

AUTOMOBILE SALES

	May 1957
Passenger Cars	537,112
Motor Trucks	102,312
Motor Coaches	499
	639,923

In May 1956, a total of 470,486 motor vehicles were sold. In the five months of 1957 the total was 3,346,574.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

HERMAN HOLLANDER, INC.
154 Nassau Street
New York 38, N. Y.

RHODESIAN CHRYSOTILE ASBESTOS

regular supplies of long Spinning Grades, Filter Grades, shorter Grades (comparable 3T and 3Z)

Affiliate: **A. J. Hollander (Rhod) (Pvt), Ltd.**
Bulawayo, Rhodesia.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

Now . . .
starting from the usual

WET ASBESTOS-CEMENT SHEET

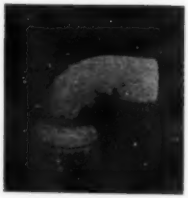
A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing

FITTINGS

OF EVERY SHAPE AND DIMENSION



—TOUGH
—RESILIENT
—COMPACT
—WATERPROOF

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

ING. G. MARCHIOLI
22 Morgagni, Milan, Italy
Cable: MINITA—MILANO **Phone: 26 67 27**

BUILDING

June contracts for future construction in the United States totalled $3,243,486,000, an increase of 10 percent over the same month last year, F. W. Dodge Corporation, construction news and marketing specialists, reported. Total construction contracts for the first half of 1957 amounted to $16,958,005,000 up five percent from the comparable period last year.

Commenting on the total contract figures for the first six months of this year, Thomas S. Holden, Dodge vice-chairman said, "The record to date leaves little room for doubt that the dollar volume of construction activity for the year 1957, as a whole, will exceed last year's all-time high."

Contracts for non-residential buildings were valued at $1,186,448,000 in June, 16 percent above the year-earlier level. Nearly all types of non-residential buildings in the increase; the largest gains were registered by hospital buildings and manufacturing buildings. For the first six months of this year, non-residential building contracts totalled $5,970,747,000, five percent higher than the corresponding period of 1956.

June contracts for residential buildings amounted to $1,155,049,000, down four percent from a year ago. The entire decline was accounted for by a decrease in contracts for one-and-two-family houses. Residential building contracts for the first half of 1957 were valued at $6,483,314,000, five percent below the first half of 1956.

The number of housing units contracted for in June totalled 86,549, a drop of 12 percent compared to June 1956. The number of housing units for the first half of 1957 amounted to 499,490, a decline of 11 percent from the comparable 1956 period.

The sharper decline in unit volume than in dollar value in the residential category can be accounted for by the trend toward larger and more costly homes.

The dollar value of heavy engineering contracts in June was 901,989,000, an increase of 25 percent over June 1956. A substantial gain in the public works category more than offset a decline in the utilities category.

PAB-FLEX and PAB-ROK

A new all-purpose utility grade of asbestos cement wallboard which has proved extremely serviceable in the tropics now is being produced at the Redwood City, California, plant of Pabco Building Materials Division of Fibreboard Paper Products Corporation.

Two grades of the tough, but easy to handle, fireproof, waterproof, rot-proof, asbestos cement board are being produced under the trade names PAB-FLEX and PAB-ROK.

PAB-FLEX, the flexible grade, meets Federal specification SS-S-283a, Type F. This product is used where application to curved surfaces or where great flexibility is required.

PAB-ROK, the utility grade, meets Federal specification SS-S-283, Type U. It is used where economy in initial cost is required and where only average flexibility is necessary.

The color of the new wallboard products is natural stone gray. No paint is required except for decorative purposes. The material can be hosed down with water, scoured or scrubbed to clean without harm.

TECHNIQUES OF PLANT MAINTENANCE & ENGINEERING—1957. The latest in the annual series of reports on the changing patterns of maintenance and engineering gives these subjects the greatest coverage in depth of the eight volumes published.

A report of the conference proceedings held annually in conjunction with the Plant Maintenance & Engineering—1957," this year includes 29 papers presented by discussion leaders, the largest number in the series thus far. In addition, the report on the discussion has 890 specific problems presented in the form of questions and answers.

Published July 1, it is available from the exposition management, Clapp & Poliak, Inc., 341 Madison Ave.,New York 17, N.Y.—$10 postpaid..

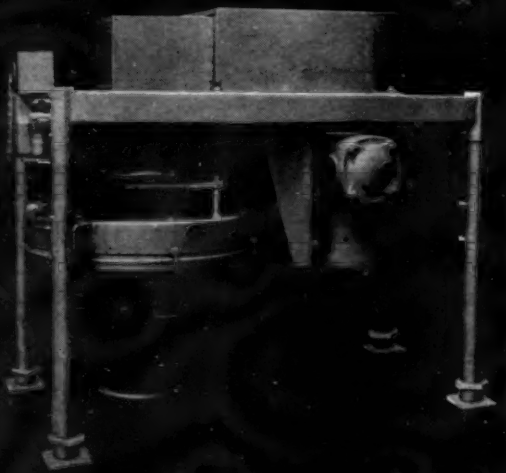
Introducing... the NEW ENTOLETER® *HEAVY DUTY CENTRIMIL*...

SPECIFICALLY DESIGNED, ENGINEERED and FIELD TESTED for the Asbestos Industry...

A TRUE CENTRIFUGAL IMPACT MILL

ENTOLETER HEAVY DUTY CentriMil will extend your asbestos without damaging its length . . . and incorporates the following improved features . . .

* **NEW . . .** rugged spindle and body assembly
* **NEW . . .** heavy duty, high speed bearings
* **NEW . . .** special lubricating system
* **the LATEST . . .** in wear resistant construction



Actual photo of CentriMil . . . series 27 recently used in successful field trials on ASBESTOS IMPACT MILLING.

the ENTOLETER HEAVY DUTY CentriMil is NOW available in two sizes:
CentriMil series 27 for capacities up to 6,000 lbs. per hour
CentriMil series 40 for capacities up to 12,000 lbs. per hour

WRITE FOR SPECIFICATIONS . . . Free sample processing is available in the ENTOLETER Development Laboratory.

In Canada, for further information contact:
LYNN MACLEOD ENGINEERING SUPPLIES, LTD.
THETFORD MINES, QUEBEC, CANADA

ENTOLETER DIVISION
SAFETY INDUSTRIES INC.
P.O. Box 904 **New Haven 4, Conn.**

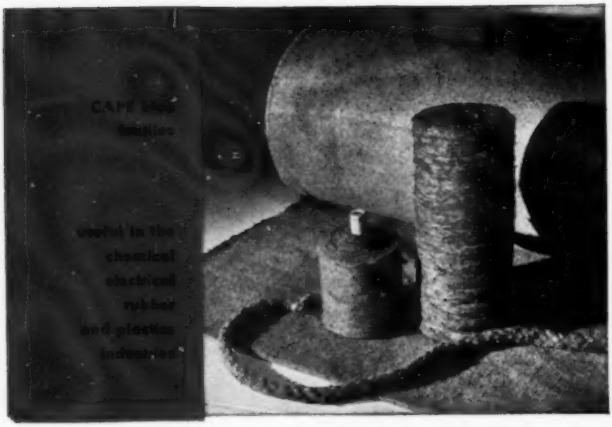
The Book Corner

• **1956 PROCEEDINGS PUBLISHED BY ASTM,** The 1956 edition of the ASTM PROCEEDINGS has recently been published. The 1510-page volume records the accomplishments of the American Society for Testing Materials for the year 1956. It includes technical reports and papers with discussions. A summary of the 59th Annual Meeting held June 1956 noting the title and author of each paper presented is included. Copies may be obtained from the American Society for Testing Materials, 1916 Race Street, Philadelphia 3, Pa., at $12 each.

• **EFFICIENCY**—the latest issue (Vol. XIII, No. 1), the publication of the Industrial Mineral Fiber Institute, Inc., contains much valuable information. A new heat-loss calculator giving heat losses due to convection and radiation as well as total losses is illustrated. The new set of curves developed by the Institute's Technical Committee eliminates time-consuming calculations in determining heat losses from plane vertical surfaces more than two feet high. For a copy write to Industrial Mineral Fiber Institute, Inc., 441 Lexington Ave., New York 17, N. Y.

• **ASTM STANDARDS ON THERMAL INSULATING MATERIALS.** (with related information) (C-16). This is the first edition of a special compilation of ASTM standards assembled conveniently in one book of all the widely used methods of test and specifications developed by ASTM Committee C-16 on Thermal Insulating Materials. Copies may be purchased from ASTM Headquarters, 1916 Race Street, Philadelphia 3, Pa., at $3.00 each.

• **MANUAL OF UNIT PRICES** — For figuring net unit price per linear foot for pipe covering, and per square foot for insulating blocks; 90c per copy. "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia, 7, Penna.



yarns, cloths, tapes, ropes, rovings—

BLUE asbestos products

These fine textiles are 100% pure CAPE Blue asbestos—contain no cotton, rayon or other organic fibers—yet are priced substantially below 95% crysotile asbestos textiles. In addition to outstanding resistance to chemicals and acids, Blue crocidolite asbestos products have extremely high reinforcing values in molded and laminated plastics. Write for Bulletin 201 and samples.

NAAC

in the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building • Chicago 4, Illinois

In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

CAPE

Subsidiaries of The Cape Asbestos Company Ltd. • London

Canada

(Department of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for May 1957 (Quebec)	95,109 tons
Other Provinces	5,453
	100,562

Total production for May 1956 was 101,934 tons.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for March 1957	9,664.65 tons
Valued at	£688,746
Production for March 1956	9,242.13 tons
Valued at	£682,777

Union of South Africa

(Quarterly Information Report — Dept. of Mines)

Tons 2000 lbs.

4th Quarter (Oct. Nov. and Dec. 1956)

	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	13,113	50	£ 1,471	13,265	£ 557,909
Anthophyllite	.....	....	....	....	.....
Chrysotile	5,686	654	19,744	4,474	279,788
Cape Blue	13,476	485	41,243	15,019	1,086,802
Transvaal Blue	3,730	204	12,438	3,046	204,044
	36,005	1,393	£74,896	35,804	£2,128,543

	Year 1956			Year 1956	
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	50,097	2,782	£44,601	46,894	£1,996,867
Anthophyllite	.....	....	....	....	.....
Chrysotile	24,336	3,689	109,407	17,775	1,144,555
Cape Blue	47,688	1,734	127,073	45,013	3,316,823
Transvaal Blue	14,399	1,050	57,271	13,185	877,792
	136,520	9,255	£338,352	122,867	£7,336,037

From any viewpoint...

New

HUYCK NEEDLED FELTS

Help Asbestos Cement Manufacturers

Get Quick Start-ups · Increase Production · Lower Cost

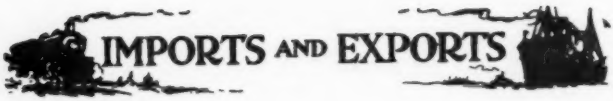
New Huyck Needled Felts are today described as the best felts this side of asbestos. Because they are engineered to meet the specific requirements of the asbestos cement industry—because they give quick starts—because they have the built-in ability to take plenty of punishing service—and because they produce more tons of top quality shingles and siding at lower felt cost per square.

If you have not heard the full story of the advantages gained through using new Huyck Needled Felts, talk to your Man-from-Huyck or write us today.

NEW! HUYCK FELTS

FIRST IN QUALITY · FIRST IN SERVICE

F. C. HUYCK & SONS · Established 1870
Rensselaer, New York · Alliance, Alabama
Peterborough, New Hampshire · Cavendish, Vermont
IN CANADA: KENWOOD MILLS LTD.
Arnprior, Ontario · Established 1918



Imports into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	March 1957
From Canada	49,144
Rhodesia (Ny)	1,630
Union of S. Africa	3,284
Australia	318
Other Countries	55
	54,431
Valued at	$5,494,756

By Grades:

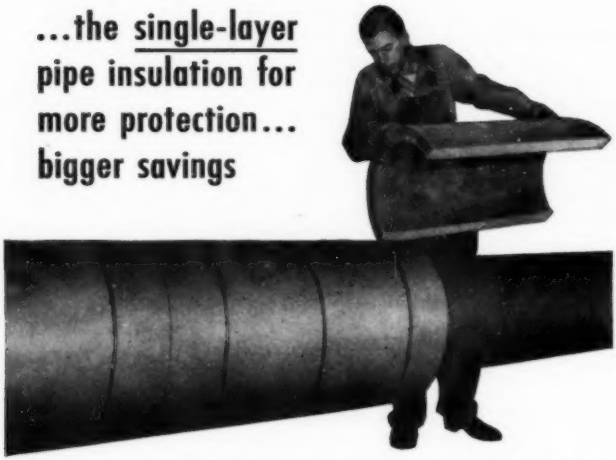
Crude No. 1, Chrysotile	3
Crude No. 2, Chrysotile	7
Crude, Other, Chrysotile, Canada	13
Crude, Other, Chrysotile, Rhodesia (Ny)	1,363
Crude, Other, Chrysotile, Other Countries	2
Crude, Blue Australia	318
Crude, Blue, U. of S. Africa	1,520
Crude, Blue, Other Countries	25
Crude, Amosite, Union of S. Africa	1,701
Textile Fibres, Chrysotile, Canada	1,444
Textile Fibres, Chrysotile, U. of S. Africa	63
Textile Fibres, Chrysotile, Other Countries	13
Shingle Fibres, Chrysotile, Canada	6,066
Paper Fibres, Chrysotile, Canada	4,260
Other Fibres, Chrysotile, Canada	37,361
Other Fibres, Chrysotile, Rhodesia (Ny)	267
	54,431

Manufactured Asbestos Goods:

	March 1957	
	Quantity (Lbs.)	Value
Asbestos Yarn, United Kingdom	80,522	$63,024
Other Countries	1,430	2,539
Asbestos Packing & Lining	25,770	9,723
Asbestos Shingles, Not Impreg.)		
Belgium	259,199	11,970

UNIBESTOS®

...the single-layer pipe insulation for more protection... bigger savings



Unibestos protects pipelines up to 1200° F. Single-layer construction cuts application costs...seals in more heat at the joints than double-layer insulations. Available in sectional form through 44" O.D.

UNARCO...for the best in asbestos insulation

TEXTILES

Cloth (plain and metallic)
Woven Tapes
Gasket Cloth
Sheet Packings
Front End Tape

FLEXIBLES

Insutube—slip-on
Insutape—wrap-on
Insubestos Felt
Wovenstone®—lace-on
Specialty Insulation

PACKING

High Pressure Rod Packing
Blue Asbestos Packing—acid resistant
Square Braided Packing
Valve Stem Packings—twisted and braided
Joint Runners
High Pressure Packing—semimetallic

UNARCO®

Write for new 40-page catalog

UNION ASBESTOS & RUBBER COMPANY

1111 West Perry Street • Bloomington, Illinois

Italy	2,574,948	114,579
Other Countries	33,455	3,224
Asbestos Manufactures—Others		4,525
	2,975,324	$209,584

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	April 1957
From Canada	51,009
Rhodesia (Ny)	1,657
Union of S. Africa	1,763
Australia	210
Other Countries	37
	54,676
Valued at	$5,151,192

By Grades:

Crude No. 1, Chrysotile	3
Crude No. 2, Chrysotile, Canada	18
Crude, Other, Chrysotile, U. of S. Africa	44
Crude, Other Chrysotile, Rhodesia (Ny)	1,657
Crude, Other, Chrysotile, Other Countries	4
Crude, Blue, Australia	210
Crude, Blue, U. of S. Africa	829
Crude, Amosite, U. of S. Africa	619
Textile Fibres, Chrysotile, Canada	1,248
Textile Fibres, Chrysotile, U. of S. Africa	88
Textile Fibres, Chrysotile, Other Countries	2
Shingle Fibres, Chrysotile, Canada	5,590
Paper Fibres, Chrysotile, Canada	4,433
Other Fibres, Chrysotile, Canada	39,720
Other Fibres, Chrysotile, U. of S. Africa	183
Other Fibres, Chrysotile, Other Countries	28

Manufactured Asbestos Goods:

	April 1957 Quantity (Lbs.)	Value
Asbestos Yarn, United Kingdom	30,303	$22,233
Other Countries	2,362	5,389
Asbestos Packing & Lining	2,749	3,800
Asbestos Shingles (Not Impreg.)		
Canada	934,211	72,759
Italy	2,938,789	124,156
Other Countries	294,858	16,071
Asbestos Shingles (Impreg.)	17,508	3,382
Asbestos Manufactures—Others		3,261
	4,120,780	$251,051

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	Tons	April 1957 (2240 lbs.)	Value
To Europe		56	$ 9,891
South America		29	5.112
United Kingdom		27	2,650
Other Countries		48	9,243
		160	$26,896

Manufactured Asbestos Goods:

		April 1957 Quantity	Value
Asbestos Cement & Pipe Covg.	Lbs.	342,404	$ 65,486
Asbestos Textiles & Yarn	Lbs.	87,171	84,217
Asbestos Packings	Lbs.	116,586	176,907
Asbestos Clutch Facings	No.	100,080	89,413
Asb. Bk. Lng. (Mld.&S.Mld.)	Lin. Ft.	156,363	41,610
Asbestos Brake Lining,Rolls	Lin Ft.	19.617	23.054
Asbestos Brake Lining, Other	Lbs.	436,650	366,464
Asbestos Construction Materials	Lbs.	2,762,919	363,186
Asbestos Manufactures—Others			61,841
			$1,272,178

Imports of Asbestos by United Kingdom

Raw Materials

	May 1957 Tons (2240 lbs.)
From Union of South Africa	2,794
Basutoland Bechuanaland & Swaziland	1,048
Rhodesia	4,632
Canada	6,947
Other Commonwealth Countries	361
Foreign Countries	10
	15,792

These figures were supplied by Reuters Economic Services, Johannesburg.

To enjoy the lowest net cost of Asbestos Fibre, obtain highest price for your empty burlap asbestos bags by selling them to
ACE BAG & BURLAP CO. INC.
2640 Park Avenue New York 51, N. Y.

ARE YOU INTERESTED

IN ASBESTOS THAT—

★ HAS A LOSS IN WEIGHT OF LESS THAN 3% ON REFLUXING FOR TWO HOURS WITH 25% w/w HYDROCHLORIC ACID

★ WITHSTANDS HIGH TEMPERATURES

★ HAS GOOD FLEXIBLE FIBRES THAT OPEN UP AND BULK WELL

★ CAN BE SUPPLIED IN FIBRE LENGTHS UP TO 1"

IF SO WE CAN SUPPLY AN ANTHOPHYLLITE WITH THESE FEATURES

CENTRAL ASBESTOS Co. LTD.

ABBEY WORKS • ABBEY STREET • LONDON S.E.1

Phone BERMONDSEY 3864 CABLES CENBESTOS LONDON

CENTRAL ASBESTOS (SA) PTY LTD. P.O. BOX 3570 JOHANNESBURG

Exports from Canada

(Published by Dominion of Statistics)

Unmanufactured Asbestos:

	April 1957 Tons (2000 lbs.)	Value
Crude		
United States	39	$ 37,538
United Kingdom	....	.....
South America	....	.....
Central America & Mexico	....	.....
European Countries	11	9,196
Other Countries	5	3,876
	55	$ 50,610
Milled		
United States	12,238	$2,290,026
United Kingdom	3,204	747,133
South America	2,472	453,777
Central America & Mexico	490	88,500
European Countries	5,495	1,103,532
Other Countries	2,238	345,695
	26,137	$5,028,663
Shorts		
United States	42,997	$2,123,763
United Kingdom	4,113	174,644
South America	91	7,462
Central America & Mexico	110	4,650
European Countries	3,016	156,277
Other Countries	983	78,642
	51,310	$2,545,438
Grand Total—		
Unmanufactured Asbestos	77,502	$7,624,711

Manufactured Asbestos Goods:

Brake Lining	$ 28,651
Packing	.....
Other Materials	80,445
	$109,096

WILHELM BURGDORF

Importer of Raw Asbestos

P. O. Box 1131, BREMEN, GERMANY

CARTERS (MERCHANTS) LIMITED

SPECIALISTS SINCE **1936** IN THE SALE OF

ASBESTOS FIBRES

ON BEHALF OF **PRODUCERS** OF ALL

VARIETIES & ORIGINS

WINCHESTER HOUSE, OLD BROAD ST., LONDON E.C.2.

ROOFING
SIDING and
INSULATION

Reaching and selling the nation's top aggressive contractors each month

SELL YOUR PRODUCT IN RSI

BPA audited circulation of 11,500 representing the highest buying power in the trade.

RSI - 45 West 45th St., New York 36

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Thomas Vyvyan Baragwanath, Chairman, Cork Asbestos Mines (Pty) Ltd., Pietersburg, S. Africa, August 18.
R. J. Tobin, Chairman, Tilo Roofing Co., Stratford, Conn., August 18.
Carl W. Lemmerman, President, Homestead Corporation, Hartford, Conn., August 19.
Harry Coombs, Works Manager, Beldam Asbestos Co., Ltd., Hounslow, England, August 20.
C. H. Carlough, President, Carolina Asbestos Company, Davidson, N. C., August 20.
P. E. Coombs, Director & General Manager, Uxbridge Flint Brick Co., Uxbridge, England, August 21.
Matthew Balich, President, Matthew Balich Corporation, New York City, August 29.
George Robinson, Secretary, Johnson's Co., Thetford Mines, Canada, August 30.
A. W. Swartz, President, Linear Packing & Rubber Co., Philadelphia, Pa. August 31.
John P. Syme, Vice President, Johns-Manville Corporation, New York City, September 1.
W. D. Pardoe, Vice President, Thermoid Company, Trenton, N. J., September 8.
Brayton H. Slade, Treasurer, Thermoid Compa ny, Trenton, N. J., September 8.
Abbott Coburn, President, Globe Roofing Products Co., Inc., Whiting, Ind., September 9.
Pierre E. Donellon, Vice President, Charge of Construction, Tilo Roofing Co., Stratford, Conn., September 9.
H. William Bentley, Sales Director, Australian Asbestos (Pty) Ltd., Merrickville, Australia, September 10.
K. R. MacDonald, Director of Purchases, The Ruberoid Co., New York City, September 10.
J. Gillmur Tyson, Jr., President, Consolidated Asbestos Corporation, Sellersville, Pa., September 14.
R. J. Berry, President, Standard Asbestos Mfg. Company, Cleveland, Ohio, September 15.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

OPINION BUILDERS, INC.

After 26 years at 420 Lexington Avenue, New York City, OPINION BUILDERS, INC., moved on August 1st to: Suite 1802, 52 Vanderbilt Avenue, New York 17, N. Y.

C.J. PETROW & CO. (PTY) LTD.

ASBESTOS

VOLKSKAS BUILDING 76 MARKET STREET
JOHANNESBURG, SOUTH AFRICA

SOUTH AFRICAN
RHODESIAN

ASBESTOS FIBRES

All Grades - All Types

P. O. Box 11000 **Cable: SOTSEBSA**

ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

US RUBBER

Write: Asbeston® Dept., Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N.Y.

A. S. T. M. — 60TH ANNUAL MEETING

A varied technical program, strong in information useful to industry, covered a wide range of important data on engineering materials at the 60th Annual Meeting of the American Society for Testing Materials at Atlantic City, June 17-21. Highlighting the technical program were symposiums on the Radiation Effects on Materials, Spectrochemical Analysis for Trace Elements, and the Marburg and Gillett Lectures on industrial water and molybdenum-base alloys, respectively.

A recorded attendance of 2932 again made it the largest meeting in the Society's history. There were 31 technical sessions and over 700 technical committee meetings held during the five-day meeting. The vigorous work of the Society's many technical committees for many months was concluded with the presentation of their reports at the meeting.

R. T. Kropf, Vice-President and director of Research, Belding Heminway Co., Inc., New York, was elected President of the Society for a one-year term.

F. L. LaQue, Vice-President and Manager of Development and Research Div., The International Nickel Co., New York, was elected Vice-President for a two-year term.

K. B. Woods, Head, School of Engineering, and Director, Joint Highway Research Project, Purdue Univ., Lafayette, Ind., continues in the office of Vice-President to which he was elected last year.

Directors of the Society elected for three-year terms were: *C. L. Clark*, Metallurgical Engineer, Timkin Roller Bearing Co., Canton, Ohio; *A. E. Juve*, Director, Technical Services Research, B. F. Goodrich Co., Brecksville, Ohio; *J. H. Koenig*, Director, School of Ceramics, Rutgers University, New Brunswick, N. J.: *R. E. Peterson*, Manager, Mechanics Dept., Westinghouse Electric Corp., Research Laboratories, Pittsburgh, Pa. and *R. W. Seniff*, Manager Research, Baltimore & Ohio Railroad Co., Baltimore, Md.

February 10-14, 1958 are the dates of Committee Week to be held at the Hotel Statler in St. Louis, Missouri. The 61st Annual Meeting and Apparatus Exhibit will be in Boston, Mass., at the Hotel Statler, June 22-27, 1958.

AMERICAN BRAKE SHOE CO.
New Appointment

Rudolph F. Utermohlen has been appointed manager of replacement sales of the American Brakeblok Division of American Brake Shoe Company. Formerly assistant manager of replacement sales, Mr. Utermohlen has been with Brake Shoe since 1940 when he joined the division's sales force as district representative. He will continue to be located at Brakeblok headquarters in Detroit, Michigan.

CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

and

FILTERATION FIBRE

Mines & Mill:
SAN CARLOS
INDIAN RESERVATION
GILA COUNTY, ARIZONA

P.O. BOX 1506
GLOBE, ARIZONA

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

WHEELABRATOR CORPORATION
Administrative Changes

Top-level administrative changes were made at the annual meeting of the board of directors of Wheelabrator Corporation, Mishawaka, Indiana.

James F. Connaughton was elected to the new post of executive vice-president. *Harold M. Miller*, who has been a vice-president since 1941 was advanced to senior vice-president. *Jacob A. Schmidt, Jr.*, treasurer since 1952, is now secretary-treasurer. *John M. Wolf*, assistant treasurer since 1955, was appointed controller. *Edward T. Sullivan* was appointed assistant secretary-assistant treasurer.

Officers who were reelected are *Verne E. Minich*, honorary chairman of the board; *Otto A. Pfaff*, president; *Leslie L. Andrus*, vice president and *Stanley F. Krzeszewski*, vice-president.

The executive committee is composed of these members of the board of directors: *Leston P. Faneuf* (chairman), *Otto A. Pfaff, James F. Connaughton, R. Sherrard Elliott, Jr., Albert Fink, Milton and Walter A. Yates.*

Other directors include *Verne E. Minich, Harold M. Miller, Leslie L. Andrus, Lavid M. Milton, Albert M. Austin, Ray P. Whitman*, and *Page Hufty.*

POWHATAN MINING COMPANY

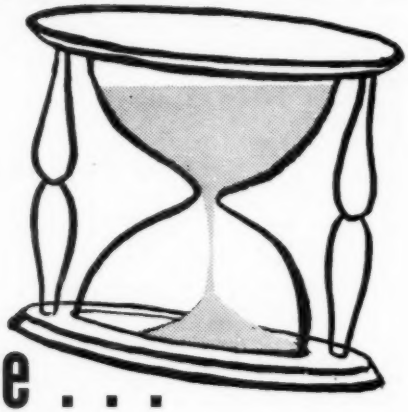
The Powhatan Mining Company, 6721 Windsor Mill Road, Baltimore, Md., miner and processor of asbestos fibre, has erected a 4,000 square foot addition. This new space is required to allow the installation of additional equipment as part of a new line which is expected to double the firm's output. In addition to its local mine, the company gets its raw material from a dozen or more other mines in North and South Carolina, Georgia, and in California and Oregon. All the processing, however, is done at its local establishment.

Fred A. Mett is president of the company.

PHILLIPS ASBESTOS MINES
Producers of
CRUDES
and
FIBERIZED ASBESTOS
The World's Finest Fibres
DRAWER 71 GLOBE, ARIZONA
Mines and Mills in Gila Co., Arizona

DURASORB FELTS

give longer life because . . .



Their special needled construction is combined with the finest wool and synthetic blends available. This combination gives Durasorb Felts extra strength and durability to make them last longer on your machines.

This is just one of the many reasons why Durasorb Felts are ideal for asbestos-cement shingles, siding and sheets. Other Durasorb features include increased drainage, finish, stability and uniformity. Ask your Albany Felt Sales Engineer for more information.

ALBANY
FELT COMPANY
Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me
St. Stephens, S. C., Cowansville, P. Q.

ASBESTOS-CEMENT PRODUCTS ASSOCIATION
Annual Meeting

Despite the down swing in new home construction, the asbestos-cement industry will have one of its best sales years, *Robert J. Tobin* predicted on his election as President of the Asbestos-Cement Products Association.

Mr. Tobin, Chairman and President of Tilo Roofing Company, Inc., and Atlantic Asphalt and Asbestos, Inc. of Stratford, Connecticut, was elected at the Association's 20th Annual Meeting. The Association is composed of nine leading manufacturers of asbestos-cement building products, including asbestos-cement siding shingles, roofing shingles, corrugated sheets and asbestos-cement board.

H. W. Hildinger, Vice-President of National Gypsum Company, Buffalo, N. Y., was elected Vice President of the Association and *Melvin W. Searls*, Assistant to the Vice-President of The Flintkote Company, New York City, was elected Assistant to the Treasurer. *H. H. Whittemore*, General Sales manager of Flintkote ,was re-elected Treasurer and *Chester C. Kelsey*, Executive Secretary.

Dirctors elected at the meeting include: *Earl C. Faulkner* of The Philip Carey Mfg. Co., Cincinnati, Ohio; *W. W. Hildinger* of National Gypsum; *R. R. Porter*, of Keasbey & Mattison Co., Ambler, Pa.; *John H. Steiner* of Supradur Mfg. Corporation, Wind Gap, Pa.; *Robert J. Tobin* of Tilo Roofing Co., Inc., *H. H. Whittemore* of The Flintkote Company; *W. R. Wilkinson* of Johns-Manville Sales Corporation, New York City; and *E. J. O'Leary* of the Rubberoid Co., New York City.

THE FLINTKOTE CO. AND KOSMOS PORTLAND CEMENT COMPANY POOL INTERESTS

I.J. Harvey, Jr., Chairman of the Board of The Flintkote Company, New York City, and *Charles Horner*, President of Kosmos Portland Cement Company, Louisville, Ky., announced jointly that an understanding has been reached, subject to the approval of stockholders of both companies, under which the respective interests would be pooled and the business of Kosmos carried on as a wholly owned subsidiary of The Flintkote Company.

Mr. Horner, who is expected to become a member of the Flintkote board upon the consummation of the transaction, said the new affiliation presented larger opportunities for its staff as well as making available for further expansion of the Kosmos operation the capital, research and technical facilities of Flintkote which operates on a nation-wide basis.

Flintkote is a large user of Portland cement in the manufacture of its asbestos-cement products, Insulrock products and Van-Packer chimneys.

Antony Gibbs & Co., Inc.

61 Broadway

New York 6, New York

Tel. Digby 4-6580

Sole Distributors in North America of

ASBESTOS FIBRES

Offered by

S. A. ASBESTOS TRADING (PTY.) LTD.

Johannesburg

From the Mines of:

RHODESIAN CHRYSOTILE

Vanguard Asbestos Mines

Boss Asbestos Mines

Grades: Spinning, 3Z, 4H, 5R, 6D, 7M

UNION CHRYSOTILE

CAPE BLUE

Kuruman Cape Blue Asbestos

Grades: 1, 2, 3

TRANSVAAL BLUE

Baboon Asbestos Co.

Grades: TD1, TD2, TD3, TD4

ARMSTRONG CORK CO
Changes in Personnel

John J. Roper, Assistant District Manager of the Boston Office of the Armstrong Cork Company's Insulation Division, has been appointed District Manager, succeeding *T. R. Nunan*, who retired effective June 1.

Mr. Roper, who was named Assistant District Manager of the Boston office some months ago, joined Armstrong with an established background of 24 years in the heat insulation field, most of which was spent in the Boston area.

Mr. Nunan joined Armstrong in 1915, following his graduation from the University of Kentucky. Since that time, he has served in many sales, supervisory and executive capacities with the Company and as head of the T. R. Nunan Company, an Armstrong Insulation distribution firm which operated in the Boston area from 1936 to 1941.

MOUNTBRIDGE EXPLORATION & INVESTMENT COMPANY (Pty) Ltd.

Beginning August 1st, 1957 the export business of raw asbestos fibres of Mountbridge Exploration & Investment Company (Pty) Ltd. of Johannesburg, will be transferred to and conducted by MOUNTBRIDGE EXPORTERS (Pty) LTD., Transreef House, 66 Marshall Street, Johannesburg.

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA

Producers of Low Iron Chrysotile Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

THE FLINTKOTE COMPANY
New Appointment

Arnold Appleyard has rejoined The Flintkote Company and has been appointed sales promotion manager in the Industrial Products Division.

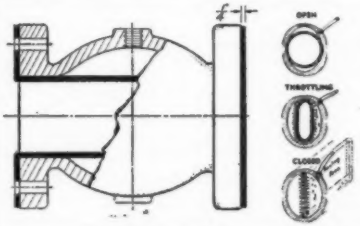
Mr. Appleyard will serve as sales promotion manager for Atlas Adhesives and a group of industrial products including Flintdek, Decoralt, Ortar and Permaset mixes for underlayment and floor finishes. He previously was associated with Flintkote's Tile-Tex Division and later served as Eastern Division Sales Manager.

Mr. Appleyard will make his headquarters in New York City, although his work will be mainly in the field.

ROCKBESTOS PRODUCTS CORP.
CHANGES ADDRESS

On August 1, 1957 Rockbestos Products Corporation, wire and cable manufacturers in New Haven, Connecticut, changed the address of their St. Louis office to: Lambert-St. Louis Municipal Airport, St. Louis 21, Missouri.

Mr. George La Breacht has been appointed Sales Engineer for this area and will assist *Mr. E. J. Parker*, District Manager, in the St. Louis territory.



RED JACKET VALVES

For Crude or Refined Asbestos

CARNEGIE, PA.

„ *Tropag* "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

JOHNS-MANVILLE CORP.
2nd Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the second quarter of 1957 were $5,660,000, compared with $7,894,000 for the corresponding period last year.

Sales for the second quarter of 1957 were $82,417,000, compared with $82,685,000 for the second quarter last year.

Earnings per share of common stock for the second quarter were 79 cents on an average of 7,151,424 shares outstanding, compared with $1.23 on an average of 6,415,642 shares for the same period last year.

For the year to date, sales were $148,072,000 and earnings were $8,614,000 or $1.20 per share, compared with sales of $147,359,000 and earnings of 12,005,000 or $1.87 per share for the first six months last year.

CURRENT RANGE OF PRICE

As of August 10, 1957

Arizona—	**Per Ton of 2,000 lbs., f.o.b. Globe, Arizona**		
No. 1 Crude (soft)	$1,500.00	to	$1,750.00
No. 2 Crude (soft)	900.00	to	1,050.00
No. 3 Crude (soft)	400.00	to	450.00
Filter Fibre (soft)	250.00	to	450.00
No. 1 Crude (semi-soft)	1,200.00	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi soft)	400.00		
Canada—	**Per Ton 2000 lbs. f.o.b. Mine**		
Group No. 1 (Crude No. 1)	$1,400.00	to	$1,725.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	750.00	to	1,100.00
Group No. 3 (Spining Fibre)	350.00	to	575.00
Group No. 4 (Shingle Fibre)	170.00	to	225.00
Group No. 6 (Waste, Stucco or Plaster)			82.00
Group No. 7 (Refuse or Shorts)	38.00	to	75.00
Vermont—	**Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.**		
Group No. 3 (Spinning & Filtering)	$ 353.00	to	$ 383.00
Group No. 4 (Shingle Fibre)	172.00	to	190.00
Group No. 5 (Paper Fibre)	114.00	to	145.00
Group No. 6 (Waste, Stucco or Plaster)			82.00
Group No. 7 (Refuse or Shorts)	39.00	to	72.00

CAREY SEMI-ANNUAL REPORT

Report for the six months ended June 30, 1957 was issued by The Philip Carey Manufacturing Company, and gives the following figures:

Sales 1957	$32,325,168
Compared with same period in 1956	32,819,391
Net earnings after income taxes	1,113,889
Compared with same period in 1956	914,343
Earnings per common share	1.31
Compared with same period in 1956	1.08

TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR

425 Fourth Avenue, New York City

» ATLANTA «

Allgemeine Handelsgesellschaft m.b.H.

BREMEN, Germany Breitenweg 41

Importers of Raw Asbestos

ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of All Varieties of

RAW ASBESTOS

for Every Use

451 COMMUNIPAW AVE. JERSEY CITY, N. J.

THE RUBEROID CO.
Six Months' Report

The Ruberoid Co., reported that earnings for the frst half of 1957 increased by 13.8% over the same period last year although net sales were almost the same. During the second quarter, sales went up 4.9% and earnings rose 21.8% over the second quarter of 1956.

Net sales for the first six months totaled $37,233,071 compared with $37,392,118 for the first half of 1956; net income was $1.903,600, or $1.28 a share, compared with $1,673,294, or $1.13 a share. For the second quarter, net sales were $20,288,-263 in 1957 and $19,333,850 a year earlier. Net income was $1,233,077 compared with $1,012,395 in the second quarter of 1956.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		July 1957		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	48½	57½	53¼
Amer. Br. Shoe (Pfd.)	100	120	140	131
Armst. Ck. (Com.)	1	26⅛	28⅞	26½
Armst. Ck. (Pfd.)	np	81	83¼	83
Asbestos Corp. (Com.)	np	28⅞	31	28⅞
Carey (Com.)	10	27⅛	30	27¾
Cassiar Asb. Corp.	np	$6.50	$7.50	$6.85
Celotex (Com.)	1	33⅝	38	34
Celotex (Pfc.)	20	17¼	17¾	17¼
Certainteed (Com.)	1	8⅞	9½	9
Fibreboard Paper Pro. (Com.)	np	29¼	30¾	29⅞
Fibreboard Paper Prod. (Pfd.)	100	104¼	105	105
Flintkote (Com.)	5	44⅛	46½	45½
Flintkote, (Pfd.)	np	90½	93	93
Johns-Manville (Com.)	5	45	52¼	47¾
Natl. Gypsum (Com.)	1	41¾	46	44⅛
Natl. Gypsum (Pfd.)	np	86½	89	88½
Ray-Ma[illegible] (Com.)	1	56⅛	58¼	57¼
Rube[illegible]d (Com.)	1	30⅛	33½	32¾
Thermoid (Com.)	1	12⅛	13½	12⅝
Thermoid (Pfd.)	50	45	46	45½
Union Asb. & Rub. (Com.)	5	7⅝	8½	7⅞
United Asb. (Com.)	1	$6.05	$6.75	$6.65
U. S. Gypsum (Com.)	4	60½	63⅞	62½
U. S. Gypsum (Pfd.)	100	152	156½	152½
U. S. Rubber (Com.)	5	45⅛	48⅝	46
U. S. Rubber (Pfd.)	100	138	144	143

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

THE FLINTKOTE COMPANY
Six Months' Report

Net earnings of The Flintkote Company and subsidiaries for the first six months this year rose to $2,528,059, equal after preferred dividend requirements to $1.61 per common share, while sales set a record for the period at $53,830,403.

This compares with net earnings of $2,155,610, or $1.47 a common share, and sales of $50,372,692 in the comparable six-month period last year.

Net earnings per share are based on an average 1,491,834 common shares outstanding in the first half this year, as against 1,368,633 shares in the first six months of 1956.

In the second quarter this year, Flintkote's net rose to $1,584,930, or $1.02 per common share, from a net of $1,377,331, or 95 cents per share, in the comparable period last year. Sales for the second quarter rose to $29,214,487 from $27,064,351.

U. S. RUBBER CO.
Six Months' Report

Net profit of United States Rubber Company for the first six months of 1957 was $18,140,234, equivalent to $2.77 a share of common stock. This net profit compares with $18,659,106, equivalent to $2.91 a share, in the same period last year.

included in this year's net profit is $3,500,000, or 62 cents a common share, from the sale of the company's wire and cable business to Kaiser Aluminum and Chemical Corporation on February 1, 1957.

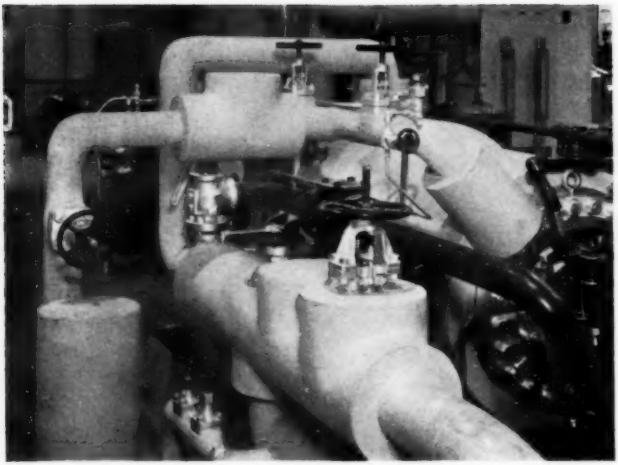
Net sales for the first half came to $451,298,696, compared with $464,095,454 in the first half of 1956. In the first half of each year, net profit was 4.0 per cent of sales.

JOHNS-MANVILLE CORPORATION

The growing Packings and Friction Materials Division of Johns-Manville has taken another step in its program to "Match Investment with Talent" with the appointment of *Clinton B. Burnett* J-M Vice President, as Division General Manager.

Mr. Burnett, formerly General Manager of J-M's Celite Division, has succeeded Mr. Francis J. Wakem, who is retiring after 36 years with Johns-Manville.

As the new General Manager, Mr. Burnett, brings to the Packings and Friction Materials Division 26 years of J-M production, engineering and managerial experience. Since starting with J-M's Waukegan, Illinois plant, as an Industrial Engineer, Mr. Burnett has served in such responsibilities as Operating Manager of J-M's Kansas Ordnance Plant during World War II, Manager of Methods Engineering, Production Manager, Building Products Division, Director of Engineering and General Manager of J-M's Celite Division.



Maximum control of temperatures with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

Curb expensive heat loss, control temperatures within minimum tolerances with performance-proved Pabco Insulations. For power plant piping and equipment, a Pabco Insulation insures peak performance wherever temperatures must be maintained up to 1900° F. Pabco's Caltemp and 85% Magnesia insulations are "Precision-Molded" by a patented process in both pipe and block form. For data on technical advantages... case histories... or engineering consultation, write... or call... a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents (in coin) to the Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Ceramic Welding Ring. No. 2,796,843. Granted on June 25, 1957 to W. D. Kleppinger; assignor to Steatite Research Corp., Keasbey, N. J. Methods for manufacturing improved ceramic backing rings for the welding of ends of pipe sections. Materials used must produce porous, shatterable, easily machined rings. In addition to the usual clay and mullite ceramics, glass bonded asbestos or glass bonded mica can be used, as they have high heat shock resistance and are relatively easy to machine.

Method of Making Filter Medium. No. 2,797,163. Granted on June 25, 1957 to W. J. Smith and R. W. James; assignors to United States Atomic Energy Commission. Method for manufacturing new and improved fibrous filter material by a wet process. Glass fiber is beaten in a paper mill beater and admixed into an equeous solution of a cationic urea formaldehyde resin. In a separate beater operation, blue Bolivian or African asbestos fibre is beaten to open the fibre. A portion of the beaten asbestos is then blended into the glass fibre slurry — the remainder of the asbestos being held for addition at the paper machine head box. An aqueous emulsion of polyacrylic resin is then stirred in, and the mixture formed into sheet and dried in conventional manner. The sheet filter produced has good strength and resistance to high temperatures, and is suitable as a filter for both gases and liquids.

Tool for Cutting Fibre-Cement Sheets or Like Material. No. 2,797,481. Granted on July 2, 1957 to J. M. Iggulden. An improved tool for cutting asbests-cement sheet material. Curved or internal cuts can be made more expeditiously with this tool than with the narrow-bladed saws generally used.

Method of Forming a Surface Covering. No. 2,798,822. Granted on July 9, 1957 to F. G. Carter assignor to Ther-Mo Roof, Inc., Houston, Texas. An improved roof is made by applying in successive layers a heat-softened asphaltic base, portland cement, plasticized polyvinly acetate, short fibre asbestos, a finely divided inert filler, powdered aluminum silicate, and water.

Cork Asbestos Elastomer Sheet. No. 2,799,578. Granted on July 16, 1957 to S. M. Lillis and J. C. Toman; assignors to Victor Manufacturing & Gasket Co., Chicago, Ill. A method of

We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

manufacturing fibrous gasket material having high compressibility and recovery, resistant to high temperatures, and impervious to oil, greases and coolants. The composition comprises virgin asbestos febre, refiberized scrap asbestos, ground cork, an elastomer, and certain additional chemicals and other materials. The sheets are formed on a wet lap cylinder paper making machine, and gaskets are cut from the sheets.

JOHNS-MANVILLE MARKETS "FIBRA - FLO"

Johns-Manville Corporation, one of the largest primary producers of asbestos and diatomite, has started marketing "Fibra-Flo", a combination of these two products, in a line of filter aids, that assure filtration flexibility, greater efficiency and lower cost of operation.

Carlton J. O'Neil, J-M Vice-President and one of the men responsible for the development of "Fibra-Flo", has been named General Manager of Johns-Manville's Celite Division. "Jerry O'Neil, as he is widely known in the trade, succeeds *C. B. Burnett* who has moved over to J-M's Packings and Friction Materials Division as General Manager.

"Fibra-Flo" was developed in the J-M Research Center at Manville, New Jersey and first marketed in the brewing industry. Its filtration properties, which are particularly advantageous during the final polishing process in brewing, brought immediate and widespread use.

THE RUBEROID CO.

Ruberoid recently announced the appointment of *Harry H. Kaufman*, as the firm's assistant director of quality control. Mr. Kaufman, who will make his headquarters at the company's plant at South Bound Brook, N. J., has already assumed his new duties.

Mr. Kaufman was an instructor in chemistry and physics with the Newark board of education before entering private industry. Since World War II he had been employed as a chemist and quality control engineer by several building material companies.

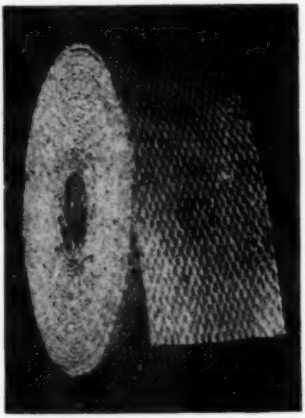
CANADA'S MINERAL PRODUCTION
Preliminary Report — 1956

Two billion dollars was the valuation of the mineral production in Canada in 1956 according to a preliminary estimate prepared by the Dominion Bureau of Statistics at Ottawa. The increase over the preceding year amounted to $272.4 millions or 15 per cent. In 1955 the value was $1,795,310,796.

Non-metallic minerals were worth $171 millions in 1956 compared with $144.9 millions in 1955. The tonnage of asbestos decreased but the price increase raised the total value to $109 millions.

Outstanding flash protection for lead-sheathed cables in manholes

R/M No. 907F ASBESTOS TAPE



Highly resistant to oil, water and flame. Impregnated and coated with a special flexible compound.

• • •

Contains no wire.

• • •

Adopted by electric utility companies as best by laboratory and service tests.

Supplied in Commercial Grade. Approx. 1/16 in. thick.

Widths available:	1 in.	1½ in.	2 in.	2½ in.	3 in.
Approx. lb. per 100 ft.:	2.6	4.0	5.4	6.9	8.0

Furnished in 25 or 100-ft. rolls

RAYBESTOS-MANHATTAN, INC.

ASBESTOS TEXTILE DIVISION, Manheim, Pa.

RM

FACTORIES: Manheim, Pa.; Bridgeport Conn.; No. Charleston, S.C.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada

RAYBESTOS-MANHATTAN, INC., Asbestos Textiles • Laundry Pads and Covers • Engineered Plastics • Mechanical Packings Abrasive and Diamond Wheels • Brake Linings • Brake Blocks Clutch Facings • Industrial Rubber • Rubber Covered Equipment Sintered Metal Products • Industrial Adhesives • Bowling Balls

SOUTHERN ASBESTOS — TEXTILES

SOUTHERN ASBESTOS COMPANY, CHARLOTTE 1, N. C.